

North Carolina State University

Environmental Engineering Curriculum (Effective 07-01-2021)

1+3 Program with UNC Asheville

FALL SEMESTER

SPRING SEMESTER

Freshman Year (UNC Asheville)

MATH	191	Calculus I	4		MATH	192	Calculus II	4
LANG	120	Acad. Writing & Crit Inquiry	4		PHYS	221	Physics I	4
CHEM	132	General Chemistry	3		ECON	104	Microecon. Princip. for Engineer.	3
CHEM	111	General Chemistry Lab	1		CHEM	233	Fndns Inorganic Chemistry	3
E	101	Intro to Engr & Prob Solv	1		***	***	GEP Humanities Course	<u>3</u>
JEM	123	Intro to CAD for Mechat. Eng.	1					17
FYS	178	First Year Seminar	<u>3</u>					
			<u>17</u>					

Sophomore Year (NC State)

CE	214	Engineering Mechanics – Statics	3		CE	282	Hydraulics	3
CE	250	Intro to Sustain. Infrastructure	3		CE	373	Fundamentals of Environ. Eng	3
CHE	205	Chemical Proc. Principles	4		BIO	183	Intro Biology: Cell/Molec Bio	4
MA	242	Calculus III	4		***	***	Earth Systems Chem Elective	3
CSC	111	Intro to Computing: PYTHON	3		MA	341	Applied Differential Equations	<u>3</u>
E	115	Intro to Computing Environ	<u>1</u>					16
			<u>18</u>					

Junior Year (NC State)

CE	378	Environ. Chem & Microbio	4		CE	381	Hydraulics Sys Meas Lab	1
TDE	220	Civil Engineering Graphics (a)	3		CE	383	Hydrology & Urban Water Sys	3
PY	208	Physics for Eng & Sci II	3		CE	339	Civil Engineering Systems	3
PY	209	Physics for Eng & Sci II Lab	1		MAE	201	Engr Thermodynamics I	3
ST	370	Probability & Statistics for Engr	3		PS	320	US Environ Law & Politics (b)	3
COM	110	Public Speaking	<u>3</u>		***	***	GEP substitute for E 102	2
			<u>17</u>		HES	***	Phys Ed/Healthy Living Course	<u>1</u>
								16

Senior Year (NC State)

CE	476	Air Pollution Control (c)	3		CE	477	Solid Waste Engineering	3
CE	488	Water Resource Engr	3		CE	481	Environmental Engr Project	3
CE	484	Water Supply & Waste Water Sys	3		***	***	ENE Elective II	3
***	***	ENE Elective I	3		***	***	ENE Elective III	3
***	***	GEP Humanities Course	3		***	***	GEP Interdisc. Persp. Course	<u>3</u>
HES	***	Fitness & Wellness Course	<u>1</u>					15
			<u>16</u>					

(a) or GIS 280 (3)

(b) or PS 336 (3)

(c) or CE 479 (3)